

PATENT
Attorney Docket No. INL-052

JC973 U.S. PTO
09/871885
05/31/01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): Mansouri et al.
SERIAL NO.: To Be Assigned GROUP NO.: To Be Assigned
FILING DATE: Herewith EXAMINER: To Be Assigned
TITLE: Analytical Instruments, Biosensors and Methods Thereof

Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicants hereby make of record the patents and publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application. Copies of the patents and publications are enclosed.

REMARKS

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed (CHECK ONE):

- ☒ (1) within three (3) months of the **filing date** of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the **date of entry of the national stage** as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing of the **first Office action** on the merits, or before the mailing of a **first Office action** after the filing of a request for continued examination under 37 C.F.R. 1.114; or
- ☐ (2) after the period defined in (1) but before the mailing date of a **final action** or a **notice of allowance** under 37 C.F.R. 1.311, and
- ☐ the requisite Statement is below, **OR**
- ☐ the requisite fee under 37 C.F.R. 1.17(p), namely **\$180.00**, is included herein, or
- ☐ (3) after the mailing date of a **final action** or **notice of allowance** but before the payment of the **issue fee**, **AND**

- ☐ the requisite Statement is below, **AND**
- ☐ the requisite petition fee under 37 C.F.R. 1.17(p), namely **\$180.00** is included herein.

It is respectfully requested that each of the patents and publications listed on the attached Form PTO-1449, and other information contained herein, be made of record in this application.

STATEMENT

As required under 37 C.F.R. 1.97(e), Applicant(s), through the undersigned, hereby state either that [check the appropriate space only if either (2) or (3) is checked on the previous page and the Statement is required]:

- ☐ 1. Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application **not more than three months** prior to the filing of the Information Disclosure Statement; or
- ☐ 2. No item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to **any individual** designated in 37 C.F.R. 1.56(c) **more than three months** prior to the filing of the Information Disclosure Statement.

Respectfully submitted,

Date: May 31, 2001
Reg. No. 44,244

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<p>FORM PTO - 1449</p> <p>INFORMATION DISCLOSURE STATEMENT</p>	<p>ATTORNEY DOCKET NO.: INL-052 (4643/94)</p> <p>APPLICANT(S): Mansouri et al.</p> <p>SERIAL NO.: To Be Assigned</p> <p>FILING DATE: Herewith GROUP: To Be Assigned</p>
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U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A1	4,355,105	10/19/82	Lantero, Jr.	435	94	3/30/81
	A2	4,390,627	1/28/83	Lantero, Jr.	435	180	10/26/81
	A3	4,551,482	11/5/85	Tschang et al.	521	53	1/23/83
	A4	4,734,184	3/29/98	Burleigh et al.	204	409	2/26/87
	A5	4,760,024	7/26/88	Lantero, Jr.	435	178	1/17/86
	A6	5,286,364	2/15/94	Yacynych et al.	204	418	3/29/91
	A7	5,540,828	7/30/96	Yacynych	204	418	2/15/94
	A8	5,541,097	7/30/96	Lantero et al.	435	188	2/9/95
	A9	6,133,229	10/17/00	Gibson et al.	514	2	

FOREIGN PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)
	B1	0,133,531 A1	2/27/85	EP			7/31/84		Y
	B2	0,133,531 B1	2/27/85	EP			7/31/84		Y

OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)	
	C1	Hart et al., (1999) "Estimation of Lactate in Meat Extracts by Screen-Printed Sensors," <u>Analytica Chimica Acta</u> , Vol, 386, pp. 7-12
	C2	Partel et al., (2000) "Fabrication and Characterization of Disposable Type Lactate Oxidase Sensors for Dairy Products and Clinical Analysis," <u>Sensors and Actuators</u> , Vol., B 67, pp. 134-141
	C3	Andersson et al., (1999) "Protein Stabilising Effect of Polyethyleneimine" <u>Journal of Biotechnology</u> , Vol. 72, pp. 21-31

FORM PTO - 1449 INFORMATION DISCLOSURE STATEMENT		ATTORNEY DOCKET NO.: INL-052 (4643/94) APPLICANT(S): Mansouri et al. SERIAL NO.: To Be Assigned FILING DATE: Herewith GROUP: To Be Assigned
OTHER ART, JOURNAL ARTICLES, ETC.		
	C4	Chen et al., (1998) "Stability of Oxidases Immobilized in Silica Gels" <u>J. Am. Chem. Soc.</u> , Vol. 120, pp. 4582-4585
	C5	Heller et al., (1998) "Loss of Activity or Gain in Stability of Oxidases Upon Their Immobilization in Hydrated Silica: Significant of the Electrostatic Interaction of Surface Arginine Residues at the Entrances of the Reaction Channels" <u>J. Am. Chem. Soc.</u> 1998, Vol. 120, pp. 4586-4590
	C6	Minagawa et al., (1998) "Development of Long Life Lactate Sensor Using Thermostable Mutant Lactate Oxidase" <u>Biosensors and Bioelectronics</u> , Vol. 13, No. 3-4, pp. 313-318
	C7	Yang et al., (1999) "Needle-type Lactate Biosensor" <u>Biosensors and Bioelectronics</u> , Vol. 14, pp. 203-210
	C8	Garcia et al., (1990) "An Immobilization Technique Yielding High Enzymatic Load on Nylon Nets", <u>Biotechnology Techniques</u> , Vol. 4, No. 6, pp. 425-428
	C9	Ghindilis et al., (1994) "Glucose Potentiometric Electrodes Based on Mediatorless Bioelectrocatalysis. A New Approach", <u>Biosensors & Bioelectronics</u> , Vol. 9, pp. 353-357
	C10	Cao et al., (1996) "Enhancing Enzymatic Properties by the Information Method" <u>Applied Biochemistry and Biotechnology</u> , Vol. 59, No. 1
	C11	Emneus et al., (1993) "Comparison Between Different Inorganic Supports for the Immobilization of Amyloglucosidase and a-amylase to Be Used in Enzyme Reactors in Flo-Injections Systems" <u>Analytica Chimica Acta</u> , Vol. 276, pp. 303-318
	C12	Mansouri et al., (1998) "Development of a Glucose Sensor and Its Inclusion in the GEM Blood Analyzer" <u>International Federation of Clinical Chemistry and Laboratory Medicine</u> OmniPress
	C13	Geise et al., (1991) "Electropolymerized Films to Prevent Interferences and Electrode Fouling in Biosensors" <u>Biosensors & Bioelectronics</u> , Vol. 6, pp. 151-160
	C14	Sasso et al., (1990) "Electropolymerized 1, 2-Diaminobenzene as a Means to Prevent Interferences and Fouling and To Stabilize Immobilized Enzyme in Electrochemical Biosensors" <u>Analytical Chemistry</u> , Vol. 62, No. 11
EXAMINER		DATE CONSIDERED